

 Active

- L1: (1025) (hbv or hepatitis adj b) with partic\$3
- L2: (9412) allergen\$4
- L4: (3) 1 same 2
- L3: (59) 1 and 2
- L5: (1053045) partic\$3 or vlp\$1
- L6: (385) 2 with 5
- L7: (171) 2 adj5 5
- L8: (2561) vlp or virus adj like
- L9: (6) 2 with 8
- L10: (7) 2 same 8
- L11: (12348) (hbv or hepatitis adj b)
- L12: (43) 2 with 11
- L13: (4227) th2 or th adj 2
- L14: (31) 13 same 11

Default operator: ☐ OR

☒ Highlight all hit terms initially

HTA

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	1025	(hbv or hepatitis adj b) with partic\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:03
2	BRS	L2	9412	allergen\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 08:50
3	BRS	L4	3	1 same 2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 08:50
4	BRS	L3	59	1 and 2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:00
5	BRS	L5	105304 5	particl\$3 or vlp\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:00
6	BRS	L6	385	2 with 5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:01
7	BRS	L7	171	2 adj5 5	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:01
8	BRS	L8	2561	vlp or virus adj like	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:02
9	BRS	L9	6	2 with 8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:02
10	BRS	L10	7	2 same 8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:03
11	BRS	L11	12348	(hbv or hepatitis adj b)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:04
12	BRS	L12	43	2 with 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:12
13	BRS	L13	4227	th2 or th adj 2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:12
14	BRS	L14	31	13 same 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:12
15	BRS	FAMIL Y	1	1998-520792.NRAN.	DERWENT	2003/02/03 09:14



- Drafts**
- BRS:
 - BRS: 1 and 2
 - BRS: cysteine with 11
- Pending**
- Active**
- L1: (1025) (hbv or hepatitis adj b) with partic\$3
 - L2: (9412) allergen\$4
 - L4: (3) 1 same 2
 - L3: (59) 1 and 2
 - L5: (1053045) partic\$3 or vlp\$1
 - L6: (385) 2 with 5
 - L7: (171) 2 adj5 5
 - L8: (2561) vlp or virus adj like
 - L9: (6) 2 with 8
 - L10: (7) 2 same 8
 - L11: (12348) (hbv or hepatitis adj b)
 - L12: (43) 2 with 11
 - L13: (4227) th2 or th adj 2

Search List Browse Queue Edit

DBs USPAT

☐ Plurals

Default operator: OR

☒ Highlight all hit terms initially

BRS ... ISB ... Image Text HTML

	Type	L #	Hits	Search Text	DBs	Time Stamp
13	BRS	L13	4227	th2 or th adj 2	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:12
14	BRS	L14	31	13 same 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:12
15	BRS	FAMIL Y	1	1998-520792.NRAN.	DERWENT	2003/02/03 09:14
16	BRS	L18	208	cysteine.ti.	USPAT	2003/02/03 09:47
17	BRS	L19	5	11 and 18	USPAT	2003/02/03 10:00
18	BRS	L20	2146	cysteine.ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:49
19	BRS	L21	10	20 and 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:48
20	BRS	L22	37	cysteine with 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 09:49
21	BRS	L23	113	cysteine with depleted	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:07
22	BRS	L24	2462687	conjugat\$4 or cross or crosslink\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:02
23	BRS	L25	1	23 same 24	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:02
24	BRS	L26	92	23 and 24	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:02
25	BRS	L27	5433	cysteine with (replac\$3 or substitut\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:08
26	BRS	L28	464	27 with 24	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:09
27	BRS	L30	0	28 same 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:09
28	BRS	L29	277	28 and 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/02/03 10:09

EAST - [09848616.wsp:1]

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DBs: USPAT

Default operator: OR

☐ Plurals

☒ Highlight all hit terms initially

Drafts

- BRS:
- BRS: 1 and 2

Pending

- Active
 - L1: (940578) conjugat\$4 or crosslink\$4 or link\$4
 - L2: (408) (hbcag or hbsag) same 1
 - L3: (234) (hbcag or hbsag) with 1
- Failed
 - (0) s l3 and l4
 - (0) 7 with 8
- Saved
 - (31) FORMAT ADJ SAVE
 - (31) molecular adj antigen
 - (106) bachmann-m\$.in.
 - (6922) hepatitis adj b or hbv
 - (258450) core or nucleocapsid or hbcag
 - (2209) (hepatitis adj b or hbv) and (core or nuc
 - (1176) hbsag
 - (1837627) hbsag or surface
 - (940578) conjugat\$4 or crosslink\$4 or link\$4 c
 - (24189) (core or nucleocapsid or hbcag) with (

Tagged (10)

USPAT

BRS ... IS ... Image Text HTML

		Document ID	Title	Issue Date	Inventor	Cur
1	<input checked="" type="checkbox"/>	WO 200032227 A	Composition for use as vaccine against infectious diseases and in treatment of cancer and allergies	20000608	BACHMANN, M et al.	
2	<input checked="" type="checkbox"/>	WO 2056905 A2	MOLECULAR ANTIGEN ARRAY	20020725	RENNER, WOLFGANG A et al.	
3	<input checked="" type="checkbox"/>	WO 200256907 A	Molecular antigen array used in the production of vaccines for infectious diseases	20020725	BACHMANN, M et al.	
4	<input checked="" type="checkbox"/>	WO 200256905 A	Molecular antigen array used in the production of vaccines for infectious diseases	20020725	BACHMANN, M et al.	
5	<input checked="" type="checkbox"/>	WO 200185208 A	New composition, useful for vaccine production, comprises antigen or antigenic determinant and	20011115	BACHMANN, M et al.	
6	<input checked="" type="checkbox"/>	US 5324513 A	Composition useful for the fabrication of vaccines	19940628	Sobczak, Eliane et al.	424/
7	<input checked="" type="checkbox"/>	US 6231864 B1	Strategically modified hepatitis B core proteins and their derivatives	20010515	Birkett, Ashley J.	424/
8	<input checked="" type="checkbox"/>	US 6355414 B1	Immunopotentiating formulations for vaccinal use	20020312	Aguilar Rubido, Julio Cesar et al.	435/
9	<input checked="" type="checkbox"/>	US 6451320 B1	Combined hepatitis and herpesvirus antigen compositions	20020917	Stephenne, Jean et al.	424/
10	<input checked="" type="checkbox"/>	US 5039522 A	Immunogens containing peptides with an attached hydrophobic tail for adsorption to hepatitis B virus surface	19910813	Neurath, Alexander R.	424/

18/7/1

DIALOG(R)File 155:MEDLINE(R)

13927589 22153991 PMID: 12163261

A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses.

Jegerlehner Andrea; Tissot Alain; Lechner Franziska; Sebbel Peter; Erdmann Iris; Kundig Thomas; Bachi Thomas; Storni Tazio; Jennings Gary; Pumpens Paul; Renner Wolfgang A; Bachmann Martin F; et al

Cytos Biotechnology AG, CH-8952 Schlieren-Zurich, Switzerland.

Vaccine (England) Aug 19 2002, 20 (25-26) p3104-12, ISSN 0264-410X
Journal Code: 8406899

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

Virus like particles (VLPs) are known to induce potent B cell responses in the absence of adjuvants. Moreover, epitope-specific antibody responses may be induced by VLPs that contain peptides inserted in their immunodominant regions. However, due to steric problems, the size of the peptides capable of being incorporated into VLPs while still permitting capsid assembly, is rather limited. While peptides genetically fused to either the N- or C-terminus of VLPs present fewer assembly problems, the immune responses obtained against such epitopes are often limited, most likely because the epitopes are not optimally exposed. In addition, such particles may be less stable in vivo. Here, we show that peptides and proteins engineered to contain a free cys can be chemically coupled to VLPs formed from the hepatitis B core antigen (HBcAg) containing a lys in the immuno-dominant region. By using this approach steric hindrance of capsid assembly is abrogated. Peptides or protein coupled to VLPs in an oriented fashion are shown to induce strong and protective B cell responses even against self-epitopes in the absence of adjuvants. This molecular assembly system may be used to induce strong B cell responses against most antigens.

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18/7/3

DIALOG(R)File 155:MEDLINE(R)

10853039 20404849 PMID: 10949916

Insertion of foreign epitopes in HBcAg: how to make the chimeric particle assemble.

Karpenko L I; Ivanisenko V A; Pika I A; Chikaev N A; Eroshkin A M; Veremeiko T A; Ilyichev A A